Ethernet Extension Experts

Enable-IT 828 Gigabit Ethernet & PoE+ Extender User Manual

ENABLE-IT

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ABOUT THIS GUIDE

This guide provides all the information needed to install and use the Enable-IT 828 Gigabit Ethernet & PoE+ Extender. This guide is intended for use by technicians who are responsible for installing and setting up network equipment. Consequently, it is assumed that the installer has a basic working knowledge of LANs (Local Area Networks) and voice telecom wiring.

If the information in the release notes that are shipped with your product differs from the information in this guide, follow the instructions in the release notes.

Most user guides and release notes are available in Adobe Acrobat

Reader Portable Document Format (PDF) or HTML on the Enable-IT World Wide Web site: http://www.ethernetextender.com/manuals/828-Manual.pdf

INTRODUCING THE 828 GIGABIT ETHERNET & POE+ EXTENDER

Congratulations on purchasing the Enable-IT's 828 Gigabit Ethernet & PoE+ Extender — the fastest and simplest method to stretch your broadband solutions for in-building deployment in commercial office buildings, hotels, and multi-tenant residential units.

The 828 Gigabit Ethernet & PoE+ Extender offers the Lowest Cost Solution in a simple design for rapid install using existing Category 5, 5e or 6 wiring (All 4-pairs required).

This chapter contains introductory information about The 828 Gigabit Ethernet & PoE+ Extender and how it can be used in your network. It covers the following topics:

- About the 828 Gigabit Ethernet & PoE+ Extender
- Key Benefits
- Summary of Features
- Typical Applications

About the 828 Gigabit Ethernet & PoE+ Extender

The 828 Gigabit Ethernet & PoE+ Extender solves the problem of high costs associated with stretching your backbone with traditional fiber or a series of hubs/repeaters.

In many office buildings, preferred network access is a dedicated Ethernet line, however Ethernet over twisted pair wiring has its distance limitations of just 328 ft. Gigabit Ethernet requires all 4-pair (8 wires) found in Category rated 5, 5e and 6 wiring. In order to drive Ethernet signal further, one would have to add repeaters to each segment of 328ft twisted pair cabling; this is often insufficient and to costly in multi-story buildings. Fortunately, the Enable-IT 828 Gigabit Ethernet & PoE+ Extender can push the reach of Ethernet to more than (6) six times the typical Ethernet distance over existing Category 5, 5e or 6 wiring (All 4-pairs required).

To increase the durability and use of the product providing maximum future technology protection, the 828 Gigabit Ethernet & PoE+ Extender meets the challenge of modern switched LANs and allows you to add features and capacity as your network expands. The Enable-IT 828 Gigabit Ethernet & PoE+ Extender has been tested to provide full duplex transport up to 1,000MB/s over CAT5 cabling regardless of distance up to 2,000ft / 610m.

Model	Wiring	LAN Data Rate	Max. Distance
828	(4) pair CAT 5 up to CAT6	1,000Mbps FD	2,000ft / 610m

* Actual throughput rate will vary on the quality of the copper wire, twisted pair and environmental factors – but you can expect full wire speed regardless of distance or number of 828 Extenders used.

Key Benefits

The following list identifies the 828 Gigabit Ethernet & PoE+ Extender key benefits.

- Dramatic cost reduction over any competing technology (Copper or Fiber)
- Extreme Broadband technology that delivers Full Speed Gigabit Ethernet up to five times the IEEE 802.3 distance limit over Category 5 wiring or better.
- Provides one scalable infrastructure for Internet access, POTS, VoIP, video, and virtual private networking.
- Rapid installation with small box profile, no programming and no firmware to upgrade.
- Low profile box for extending your (10/100/1000) Ethernet and PoE+
- Option for disabling PoE output on remote end for supporting non-PoE devices.

Summary of Features

The Enable-IT 828 Gigabit Ethernet & PoE+ Extender has the following features:

- Full Gigabit Ethernet speed over existing CAT 5e up to CAT 6 wiring
- Uses LAN standard RJ-45 ports (10/100/1000Mbps data and PoE+ 56vdc)
- Rapid Plug and Go installation – no programming required
- Optional 2.1mm DC power jack or PoE powered (Standard)
- Drives Ethernet 1000 Mbps full-duplex service delivery with native PoE+ (60w-56vdc)
- Network Equipment independence – Transparent to protocols/applications/MAC

Specifications:

Power Indicator LED
100Mbps Link status/Activity LED
1000Mbps Link status/Activity LED

Functionality:

Data Rates 10/100/1000Mbps Full Duplex
Full Duplex/Half Duplex status/Collisions
Protocol independent

Dimensions:

Height: 3.5" (88.9mm)
Depth: 1.0 " (25.4mm)
Width: 4.5" (114.3mm)

828 LAN port pins:

Pins 1 & 2 – 10/100/1000Mbs Data
Pins 3 & 6 – 10/100/1000Mbs Data
Pins 4 & 5 – 1000Mbs Data & PoE+
Pins 7 & 8 – 1000Mbs Data & PoE+

Environment

Operating temp: -32°F to 176°F (-35°to 80°C)
Storage temp: -32°F to 180°F (-35°to 83°C)
Humidity 5% to 95%, non-condensing

Interfaces

(3) RJ-45 10/100/1000 LAN Auto negotiate
(1) 5v 2A DC Power jack 2.1mm (optional use)
(4) DIP Switches for disabling PoE output

Typical Use Applications

Enable-IT 828 Gigabit Ethernet & PoE+ Extender can be quickly installed on existing or new Category rated wiring infrastructures where extension of backbone services is required and expensive fiber options are prohibitive. The 828 Gigabit Ethernet & PoE+ Extender allows a standard Ethernet segment to be deployed quickly over existing Category 5, 5e or 6 wiring (All 4-pairs required).

Installers have the convenience of a 10/100/1000Mbps LAN Ethernet Extender for peace of mind connectivity and no device maintenance. Rapid installation allows for minimal interruption and the Broadband technology allows for investment protection up to 10 -15 years with no firmware or replacement issues. Carriers and Access Providers can came and go, but the 828 Gigabit Ethernet & PoE+ Extender technologies continue to provide lasting value such as the other utilities like Water, gas and electricity.

The Enable-828 Gigabit Ethernet & PoE+ Extender is suited for the following key environments:

- **Commercial Buildings (Multi-Tenant Extender)**
- **Business Parks (Multi-Tenant Extender)**
- **Apartments (Multi-Residential Extender)**
- **Hotels (Multi-Hospitality Extender)**
- **Business Suites (Multi-Hospitality Extender)**
- **School Campuses (University, K-12)**
- **College Housing (Multi-Residential Extender)**
- **Mining Operations – Quarries, Mine shafts**
- **Nautical Infrastructure – Cruise ships, Marinas, dive operations, subs**
- **Video Surveillance/Security**
- **WiFi Deployment – ISP's, RV Parks, Construction sites**
- **Manufacturing – Foundries, pharmaceutical, aerospace, automotive, petroleum, concrete plants, etc.**
- **Retail POS – Department stores, Bars, restaurants, retail spaces**
- **Government – Naval ships, FEMA, Housing, USGS, National Parks, Forestry, Research stations, NASA, utilities, etc.**
- **Education – outdoor camps, college campuses**
- **Healthcare – Hospitals, elder care, outpatient facilities**
- **Entertainment – Movie theaters, home entertainment, fairs, outdoor venues**

INSTALLING THE 828 GIGABIT ETHERNET & POE+ EXTENDER

The Enable-IT 828 Gigabit Ethernet & PoE+ Extender units have an individual distance restriction of approximately 900ft or 275m over existing Category 5, 5e or 6 wiring (All 4-pairs required) from device extension to device extension. The 828 units can communicate 400ft / 122m distance out each LAN port – so placing the 828 in the middle of your run is ideal. 828 units are designed to be daisy chained in a series to further extend distance. Up to (4) 828 units can be used in series to reach 2,000ft / 610m. Optional DIP switch setting for the last end 828 is selectable for disabling the PoE output if installing a non-PoE powered device.

This chapter describes the recommended installation process for the Enable-IT 828 Gigabit Ethernet & PoE+ Extender. It covers the following topics:

- Site Plan – Installation Design Considerations
- Unpacking the Enable-IT 828 Gigabit Ethernet & PoE+ Extender
- Perform an out of the box Test
- Performing the On-Site Installation

Site Plan - Installation Design Considerations

The planning process should involve a site walkthrough and discovery survey. Electrical Cable measurement tools are the most reliable method to determine the longest run of hidden wiring. Estimate the best locations to position the 828 unit to adequately reach desired connectivity for your overall run. Document your findings to use in designing a network topology to support the Ethernet Switches and backbone connectivity. Key points to remember in your Site Survey.

- Individual distance limitation of 800ft or 240m from end to end.
- Daisy Chain distance limitation of 2,000ft or 610m from end to end.
- 4 Pair CAT 5 wiring up to CAT 6 .30 Gage or better cabling is required for the Gigabit Ethernet transmission.

Options for installation include standalone use or daisy chain configurations with the ability to disable the PoE output. Here is a list of possible installation options:

1) Standalone 828 unit with optional 5v-2A power adapter.

2) Standalone 828 unit powered by your PoE injector or PoE switch.

3) 828P Kit with 60w-56v PoE+ injector

4) 828P Kit with 60w-56v PoE+ injector and multiple 828 units for maximum extension.

   For details see diagrams of each option under the Installation section.

Unpacking the Enable-IT 828 Gigabit Ethernet & PoE+ Extender

Carefully remove the Enable-IT 828 Gigabit Ethernet & PoE+ Extender and all packing materials from the box. Verify that the items listed below are present. Make sure that the equipment supplied matches what you ordered. If any items are missing or damaged, please contact Enable-IT or your distributor for assistance.

- (1) The Enable-IT 828 Gigabit Ethernet & PoE+ Extender Unit
- (1) Enable-IT 828 Gigabit Ethernet & PoE+ Extender User Manual (this manual)

Perform an out of the box Test

We highly recommend a quick test to ensure the working order of you 828 Gigabit Ethernet & PoE+ Extender. To perform this test, attach the 828 Input port to your PoE LAN switch, PoE Injector, or if using an optional 5v power adapter – your LAN device. On power up the 828 will show power and connectivity LED's. Next connect your PoE device to the output port of the 828 or if using a non-PoE powered device – Make sure to set the DIP switch to disable PoE output.
Test your connectivity from end to end.

LED indicators will provide visual operational status of the 828 Extender.

Input RJ-45 Port:

Power LED - Solid Green LED (left side of RJ-45 port) indicates the 5v power source is on and good.

Input LED - Solid Yellow LED (right side of RJ-45 port) indicates Gigabit Ethernet connectivity detected.

- No LED lit (right side of RJ-45 port) indicates 10Mbs or 100Mbs Ethernet connectivity detected.

Output RJ-45 Port:

Gigabit LED - Solid Yellow LED (left side of RJ-45 port) indicates Gigabit Ethernet connectivity and activity.

10/100 LED - Solid Green LED (right side of RJ-45 port) indicates 100Mbs Ethernet connectivity and activity.

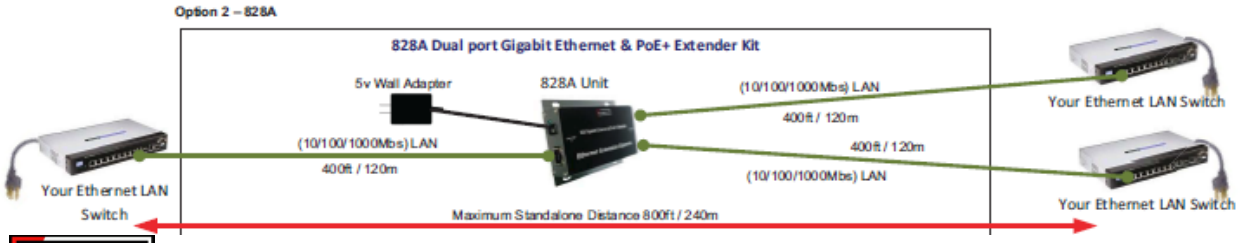
- No LED lit (right side of RJ-45 port) indicates 10Mbs Ethernet connectivity.

Performing the On-Site Installation

After removing the Enable-IT 828 Gigabit Ethernet & PoE+ Extender from the box and performing the out of the box testing all that remains to install the Extender on-site is to mount the Extender and attach the LAN device cabling.

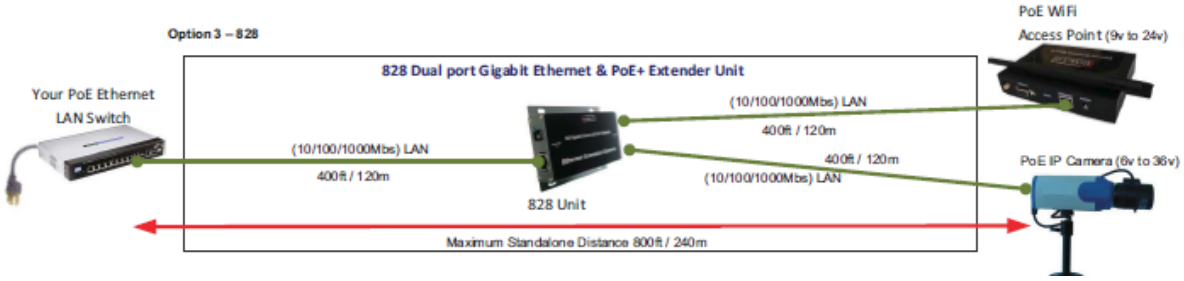
❶ Choose your installation type desired from the following list of options:

Option 1: Standalone 828 unit with optional 5v-2A power adapter.

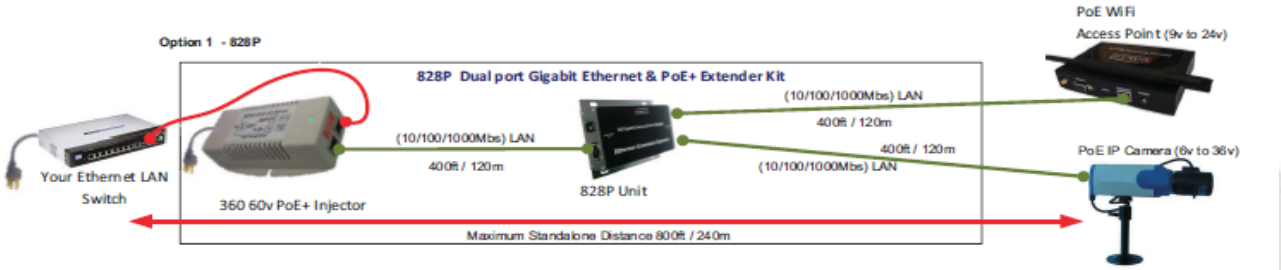


Ethernet Extension Experts

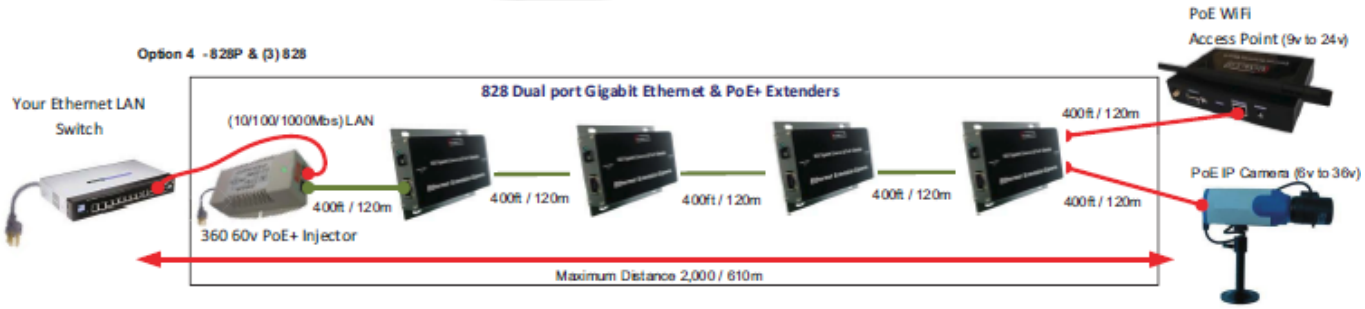
Option 2: Standalone 828 unit powered by your PoE injector or PoE switch.



Option 3: 828P Kit with 60w-56v PoE+ injector.



Option 4: 828P Kit with 60w-56v PoE+ injector and multiple 828 units.



❷ Mounting the Enable-IT 828 Gigabit Ethernet & PoE+ Extender

The Enable-IT 828 Gigabit Ethernet & PoE+ Extenders are designed for quick wall mounting. Choose a location to mount the Enable-IT 828 where the inline midpoint is no further than 400ft / 122m from your source Ethernet LAN and destination endpoint. When wall-mounting the Enable-IT 828 Gigabit Ethernet & PoE+ Extender it is recommended that you use the appropriate screw anchors for your mounting surface. If mounting on existing plywood use wood screws; if mounting onto drywall or sheetrock, use plastic drywall anchors to secure your installation.

❸ Before applying power, determine if your end device requires PoE power. The default DIP switch setting has PoE output Disabled. To enable PoE output change the DIP switch position to ON – DOWN position.

Depending on distance you can safely power PoE devices requiring 6v to 48v.

Attach your cabling and devices and apply power. Your equipment should now be powered up and functioning.

DIP Switch Settings

4 DIP Switches are provided in between Extender Output ports for setting PoE output power on or off.

Default DIP settings – **Disabled PoE** output
DIP position 1, 2, 3, & 4 Up
(OFF – no PoE Output)

To **Enable -PoE** output -
DIP position 1, 2, 3, & 4 Down
(ON – PoE Output)

Image shown above has PoE enabled on the LAN port to the left and PoE disabled on the right. DIP Switches 1 & 2 toggle PoE (ON / OFF) for the LAN ports adjacent to them likewise with DIP Switches 3 & 4 which toggle PoE (ON / OFF) for the LAN port to the right.

❹ For troubleshooting, first examine the backbone wiring pair and make sure you have solid connections. The RJ-45 Input and Output port LEDs will be lit with the following

LED indicators will provide visual operational status of the 828 Extender.

Input RJ-45 Port:

Power LED - Solid Green LED (left side of RJ-45 port) indicates the 5v power source is on and good.

Input LED - Solid Yellow LED (right side of RJ-45 port) indicates Gigabit Ethernet connectivity detected.

- No LED lit (right side of RJ-45 port) indicates 10Mbs or 100Mbs Ethernet connectivity detected.

Output RJ-45 Port:

Gigabit LED - Solid Yellow LED (left side of RJ-45 port) indicates Gigabit Ethernet connectivity and activity.

10/100 LED - Solid Green LED (right side of RJ-45 port) indicates 100Mbs Ethernet connectivity and activity.

- No LED lit (right side of RJ-45 port) indicates 10Mbs Ethernet connectivity.

Then follow the steps below:

1) Check for a firm connection of the RJ-45 connections in each connection including your LAN equipment, PoE Injector and 828 Extender and power is applied to the 828 via the PoE or optional 5v adapter.

2) You can easily isolate any issue by performing an out of the box test confirm either the 828 Extender or your wiring.

Technical Support

Enable-IT OEM Technical Support is available directly to customers and distributors. All support requests are processed through the online support portal. This allows us to provide assigned support ticket numbers in order to bring closure to any technical issues.

Online Technical Services
The Enable-IT Support Portal is available 24/7. No password or user account is necessary. Please use this support website as your first source for help as it contains an on line knowledge base of articles, documentation, FAQ's and other problem-solving resources. This web-based support resource provides the quickest solution to the most common technical support issues.
http://support.enableit.com

Returning Products for Warranty Repair
Enable-IT, Inc. warrants to the original purchaser of the Product ("you" or the "End User") that, for the four (4) year period commencing on the date the Product was purchased (the "Warranty Period"), the Product will be substantially free from defects in materials and workmanship under normal use and conditions. **Electrical damage is not an item that is covered under this warranty or warranties.**

If authorized by Enable-IT to return a Product which does not conform to the warranty set forth above, the End User must: (1) obtain a return materials authorization (RMA) number from Enable-IT by contacting the Customer Service Dept. at 888-309-0910 between the hours of 8:00 a.m. and 5:00 p.m. PST and otherwise fully comply with Enable-IT's then-current RMA policy; (2) return the Product to Enable-IT, Inc. in its original packaging freight pre-paid; and (3) provide to Enable-IT the original receipt or bill of sale establishing the date on which the Product was purchased.

Please ship Authorized RMAs to:

Enable-IT Processing Facility
16600 Harbor Blvd, Ste I
Fountain Valley, CA 92708

Returning Products for Refund
45-Day refund applies to single Extender Ethernet Extenders only and is subject to a 15% Restocking Fee. Shipments without valid / authorized RMA number or sent to our corporate Las Vegas Address can be refused and or billed for additional shipping.

ENABLE-IT LIMITED WARRANTY

Enable-IT warrants the Enable-IT 828 Gigabit Ethernet Extenders solely pursuant to the following terms and conditions.

1. PRODUCT WARRANTY
a. Express Warranty Enable-IT warrants to the original purchaser of the Product ("you" or the "End User") that, for the four (4) year period commencing on the date the Product was purchased (the "Warranty Period"), the Product will be substantially free from defects in materials and workmanship under normal use and conditions. This warranty does not apply to Products which are resold as used, repaired or reconditioned or consumables (such as batteries) supplied with the Product. **Electrical damage is not an item that is covered under this warranty or warranties.** Enable-IT does not make any warranty with respect to any third party product, software or accessory supplied with or used in connection with the Product and such third party products, software and accessories, if any, are provided "AS IS." Warranty claims related to such third party products, software and accessories must be made to the applicable third party manufacturer.

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Products returned to Enable-IT without an RMA number will be returned to the End User.
Enable-IT shall not be responsible for damage or loss during shipment of the returned Product to Enable-IT.

d. Voiding of Warranty. The express warranty set forth above shall not apply to failure of the Product if the Product has been subjected to: (i) physical abuse, misuse, improper installation, abnormal use, power failure or surge, or use not consistent with the operating instructions provided by Enable-IT; (ii) modification (including but not limited to opening the Product housing) or repair by any party in any manner other than as approved by Enable-IT in writing; (iii) fraud, tampering, unusual physical or electrical stress, unsuitable operating or physical conditions, negligence or accidents; (iv) removal or alteration of the Product serial number tag; (v) improper packaging of Product returns; or (vi) damage during shipment (other than during the original shipment of the Product to the End User from Enable-IT, if applicable).

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CONTACT US

European Sales:
+44 1 908 560200
+44 1 908 565533 fax
http://www.enable-it.eu
sales@enable-it.eu

North American Sales:
+1 888 309-0910
+1 866 389-8605 fax
http://www.enableit.com
sales@enableit.com

Asia Pacific Sales:
+61 02 8898-9622
+61 2 9939-0005 fax
http://www.enable-it.com.au
sales@enable-it.com.au

Middle East Sales:
+971-50-435-8310
http://www.enableit.com
sales@enableit.com

Other International:
+1 702-924-0402
+1 320-215-6907 fax